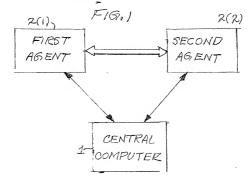
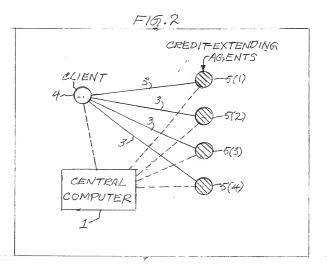
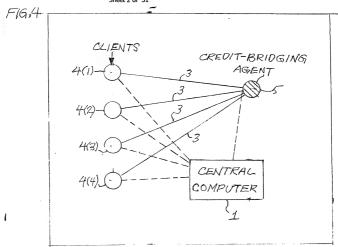
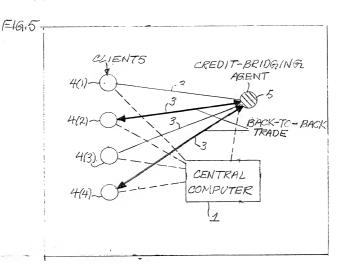
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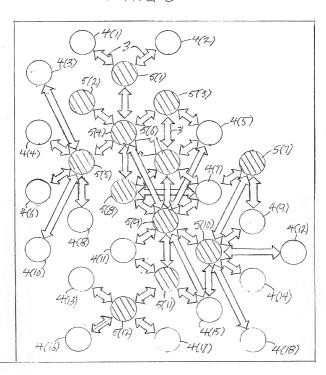
Express Mail Label No. EL566298053US Title: Global Electronic Trading System Inventors: Armand Glodjo, et al. Atty. Docket No.: 22593-06028 Sheet 2 of 31





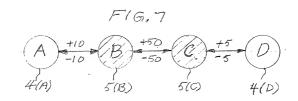
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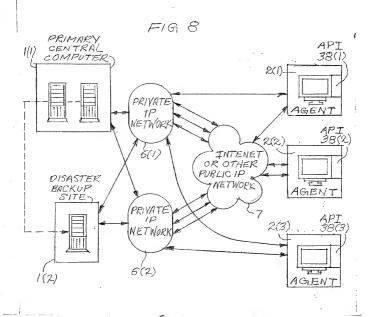
FIG.6



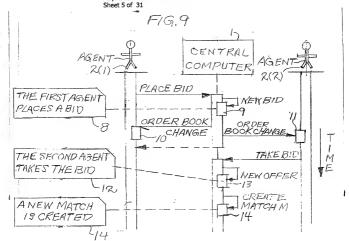
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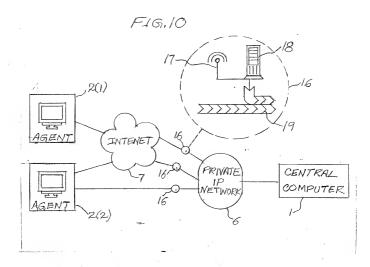
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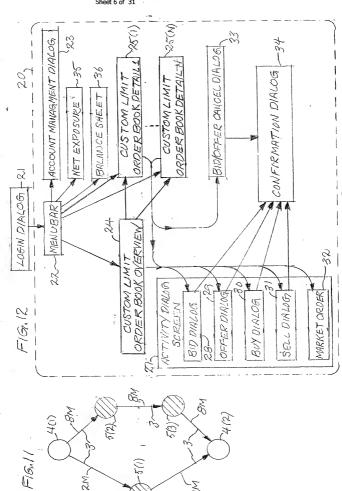


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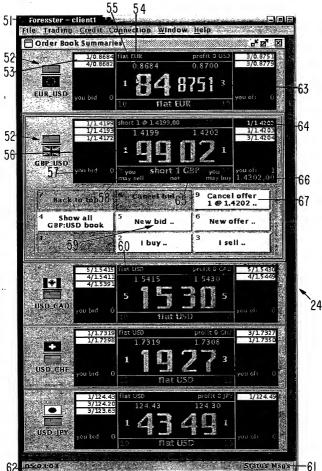
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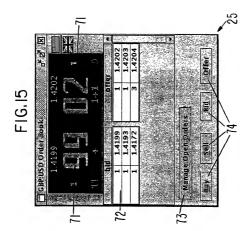
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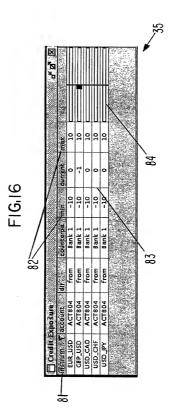
FIG.14



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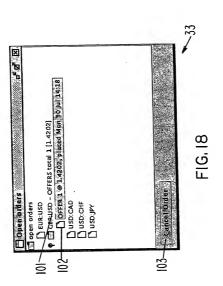
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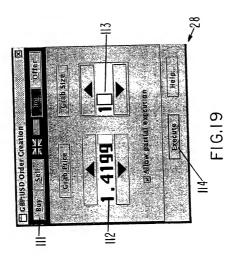
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] IP@1.43]	яР@1.43] № USD [1,6			ACT804	ACT804	ACT804	ACT804	ACT804	ACT804	ACT804	ACT804	ACT804	
	GBP@1.43	00,000 G : 1,430,00		counte	Bank 1	Bank 1	Bank 1	Bank 1						
0,000 GBP@1.43]	a group first by account/countexparty ▶ call AcT8040698 till ret -10,100 USD, receivable 1,419,900 USD, payable 1,430,000 USD [1,000,000 GFP@1 43] ■ group first by currency ▶ Call Storn int 4,145,900 USD, receivable 1,419,900 USD, payable 0 USD ■ Call Storn int 4,143,000 USD [1,000,000 GFP@1,43], receivable 0 USD, payable 1,430,000 USD [1,000,000 GFP@1,43] ■ Call Call Will ret -13,343 USD, receivable 11,418,279 USD, payable 1,431,621 USD	ns the baccountcountenarry 10 first by currency 11 first by currency 11 first by currency 11 first by currency 11 first by cur		settlement	O USD Tue 31 Jul	bought 1,541,500 CAD Tue 31 Jul	bought 1,541,500 CAD Tue 31 Jul	bought 1,541,500 CAD Tue 31 Jul	sold 1,5 42,5 00 CAD Tue 31 Jul	sold 1,5 42,5 00 CAD Tue 31 Jul	sold 1,542,500 CAD Tue 31 Jul	sold 1,542,500 CAD Tue 31 Jul	bought 1,419,900 USD Thu 2 Aug	
balance sheet for credit node 101 (Client 1) Is Thu 2 Aug: net -10,100 USD, receivable 1,419,900 USD, payable 1,430,000 USD (1,000,000 GBP@1.43)	payable 1,430,00 : 0 USD e o USD, payable 1 ,431,621 USD	inst by excurrency Store 1,419,900 USD, exceverable 6,419,900 USD, payable 5,000,000 USD Store 1,419,900 USD, exceverable 6,419,900 USD, payable 5,000,000 USD Store 1,419,900 USD, exceverable 6,419,900,000 USD, payable 1,411, receivable 6 USD, payable 1,430,000 USD payable 1,430,000		counteramt	bought 1,419,900 USD Tue 31 Jul	bought 1,541,50	bought 1,541,50	bought 1,541,50	sold 1,5 42,5 0	sold 1,542,50	sold 1,542,50	sold 1,542,50	bought 1,419,90	
USD, payable 1,4	■ group first by account/counterparty ■ Gracoled-wark: in ret -10,100 USD, receivable 1,419,900 USD, payable 1,439 ■ Gracoled-wark: in ret -10,100 USD, receivable 1,419,900 USD, payable 0 USD, ■ Group first by currency USD, receivable 1,419,900 USD, payable 0 USD, payable 0 USD, payable 0 USD, payable 1,430,000 USD 1,000,000 GPP04,431 receivable 0 USD, payable 11,431,430,430 USD, payable 11,431,431,430,430 USD, payable 11,431,621 USD	first by scurrency (1957 net 1,419.900 uSD, receivable 6,419.900 uSD, payable 5,000,000 uSD (1957 net 1,419.900 uSD, receivable 6,419.900 uSD, payable 0 uSD, payable 3,010,000 uSD (1967 net 1,419.9000 uSD (1,500,000 uSD (1,500,000 cBPe) 4.3], receivable 1,310,000 uSD (1,500,000 cBPe) 1,311 receivable 1,311 receivable 1,311,000,000 cBPe) (2,500 cBPe) (2,500 cAPe) (3,500 uSD (1,500 u			sold 1,000,000 GBP	sold 1,000,000 USD	sold 1,000,000 USD	asid 1,000,000 USD	bought 1,000,000 USD	bought 1,000,000 USD	bought 1,000,000 USD	hought 1,000,000 USD	d 1,000,000 GBP	
ent 1) vable 1,419,900	party 30 USD, receivab receivable 1,415 [-1,000,000 GBI vable 11,418,27	party receivable 6,411 [-1,000,000 GBI net -1,430,000 01-07-31,50 KR		rate amount	Ц	1.5415 sol	L	Ц	1.5425 bough	+	1.5425 bough	+	-	
it node 101 (Cli ,100 USD, recel	ccount/counter ik 1: net -10,10 urrency .419,900 USD, 1,430,000 USD ,343 USD, recel	ccount/counterurency ,419,900 USD, 1,430,000 USD, 17804@Bank 1: 000,000 CEP & 3,243 USD [-5,		tine	384822 Fri 27 Jul 16:42:06	384830 Frt 27 Jul 17:12:29	384850 Fri 27 Jul 17:14:00	384860 Fri 27 Jul 17:14:01	384870 Fri 27 Jul 17:14:03	384890 Fri 27 Jul 17:14:09	384900 Fri 27 Jul 17:14:10	384910FH Z/ Jul 17:14:11	2:37	
國 balance sheet for credit node 101 (Client 1) 中國 Thu 2 Aug: net -10,100 USD, receivable	ing group first by account counteparty Ing Acrasoasean X. net - 10,100 US Ing group first by currency Ing group first by currency Ing a USD. net 1,419,900 USD, receive Ing a USD. net - 1,430,000 USD [-1,0]			Row # V deal # deal time	384822 Fri 2		384850 Fri 2	384860 Fri 2	384870 Fri 2	384890Fri 2	384900 Fri 2	384910FH Z	384932 05:02:37	
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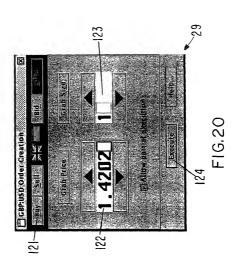
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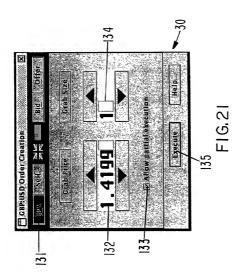
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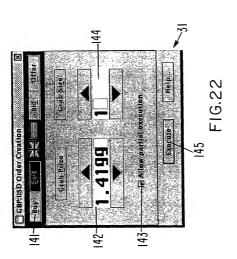
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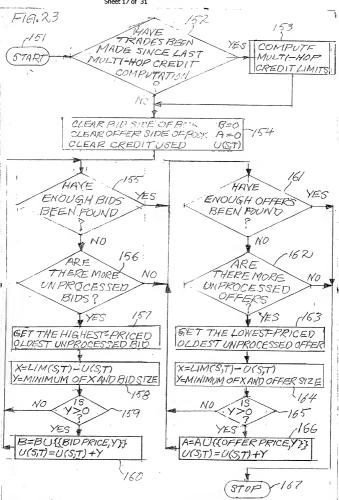
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Express Mail Label No. EL566298053US Title: Global Electronic Trading System Inventors: Armand Glodjo, et al. Atty. Docket No.: 22593-06028 Sheet 16 of 31

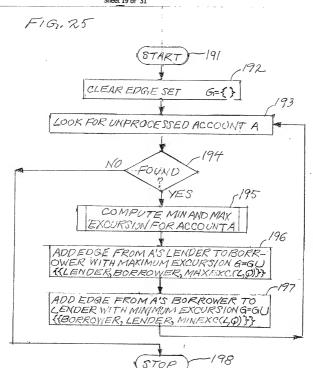


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Inventors: Armand Glodjo, et al. Atty. Docket No.: 22593-06028 Sheet 18 of 31 F16.24 START COMPUTE DIRECTED GRAPH 185 AUVANCE STO SOURCE SEFORSTAFTICKKASS NEXTNETWORK NODE SINK T=FIRST NETWORK NODE ADVANCE T TONEXT 175 NETWORK STORE MAX FLOW YES NODE S=T LIMIS,T) = 00 183 NO -177 DISABLE EDGES WHERE EDGE ORIGIN ISNOTCREDIT BRIDGE AND EDGE ORIGIN ISNOT EQUALTOS DISABLE EDGES WHERE EDGE DESTINATION ISNOT CREDIT BRIDGE AND EDGE DEST IS NOT EQUAL TO T COMPUTE MAXIMAL FLOW FROM STOT -180 STORE MAX FLOW LIM(S,T)=MAX FLOW 181 ENABLE DISABLED EDGES 182 NO THÉ LAST NETWORK NODE YES 184 186 THELAST NO NETWORK

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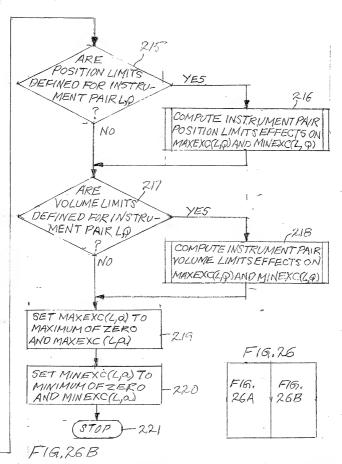


Title: Global Electronic Trading System Inventors: Armand Glodjo, et al. Atty. Docket No.: 22593-06028 Sheet 20 of 31 CLEAR MAXIMUM EXCURSION FOR INSTRUMENT START CLEAR MINIMUM EXCURSION FOR INSTRUMENT 200 202 204 POSITION LIMITS COMPUTE LOT INSTRUMENT YES DEFINED FOR INSTRU POSITION LIMITS EFFECTS ON MENTL ? MAXEXC(L,Q)ANDMINEXC(L,Q) 206 205 ARE COMPUTE LOT INSTRUMENT YOLUME LIMITS DEFINED FOR INSTRU YOUNE LIMITS EFFECTS ON MENT L? MAXEXC(L,O) AND MINEXC(L,O) 208 207 ARE COMPUTE QUOTED INSTRUMENT POS ITIUNILIMITS YES DEFINED FOR INSTRU POSITION LIMITS EFFECTSON MENTQE MAXEXC(Z)Q)AND MINEXC(Z,Q) NO 210 209 ARE YES COMPUTE QUOTED INSTRUMENT VOLUME (IMITS VOLUME LIMITS EFFECTS ON DEFINED FOR INSTRU MENTO? MAXEXC(L) PLANDMINEXC(L) 9) 212 211 ARE COMPUTE NOTIONAL PUSITION TVOTIONAL POSI-YES LIMITS EFFECTS ON TION LIMITS DE-FINEDS MAXEXC(L,Q)ANDMINEXC(LA) NO. 214 213 ARE COMPUTE NOTIONAL VOLUME YES NOTIONAL YOU LIMITS'EFFECTS ON 'UME LIMITS DE-/AXEXC(L,Q)ANDMINEXC(L, FINED? FIG.26A

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PAIR MAXEXC(L,Q)=00 -202



Express Mail Label No. EL566298053US Title: Global Electronic Trading System Inventors: Armand Glodjo, et al. Atty. Docket No.: 22593-06028 F16,27 Sheet 22 of 31 START 232 LOOK UP MAX POSITION FOR INSTRUMENTL PMAX(L) LOOK UP MIN POSITION FOR INSTRUMENTL PMIN(L) CLEARNETPOSITION POS=0 -233 LOOK FOR ANOTHER UNSETTLED FLOW OF INSTRUMENTLIN ACCOUNT A NO FOUND YES 235 FLOW TO YES POS=POS+FLOW ACCOUNT A'S BORROWER AMOUNT NO POS=POS-FLOW AMOUNT 237 X=PMAX(L)-POS 238 Y=PMIN(L)-POS 239 MAXEXC(L,Q)=MINIMUM OFMAXEXC(L,Q)ANDX MINEXC(L,Q)=MAXIMUM OF MINEXC(L,Q)ANDY

STOP

243

Title: Global Electronic Trading System Inventors: Armand Glodjo, et al. Atty. Docket No.: 22593-06028 Sheet 23 of 31 F1G, 28 START 252 LOOKUP MAX POSITION FOR INSTRUMENT Q PMAX(O) LOOK UP MIN POSITION FOR INSTRUMENT O PMIN(Q) CLEAR NET POSITION POS=0 253 LOOK FOR ANOTHER UNSETTLED FLOW OF INSTRUMENT QIN ACCOUNT A 254 NO FOUND YES 256 FLOWTO YES POS=POS+FLOW ACCOUNT A'S AMOUNT BOKROWER NO POS=POS-FLOW AMOUNT 257 X=PMNX(Q)-POS Y=PMIN(Q)-POS 259

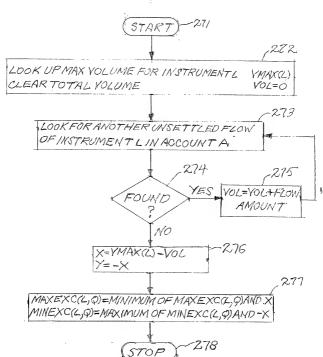
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MAXEXC(LQ)=MINIMUM OF MAXEXC(L,Q) AND X*FIXED RATE Q:L MINEXC(L,Q)=MAXIMUM OF MINEXC(L,Q) AND Y*FIXED RATE Q:L

STOP

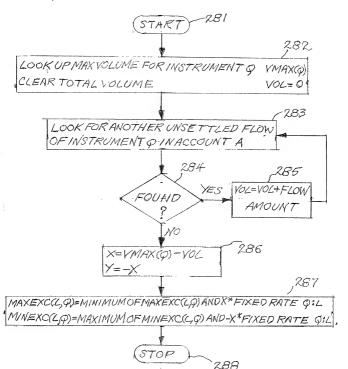
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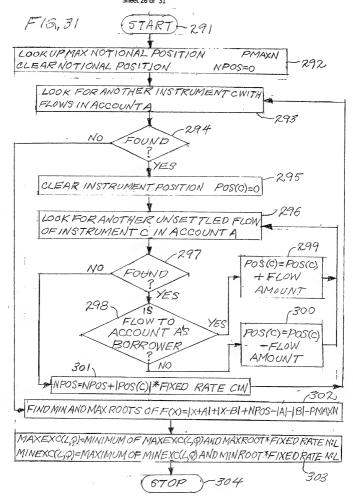
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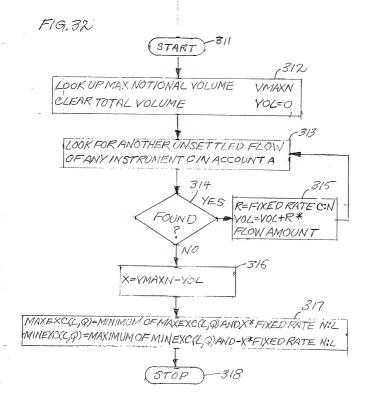


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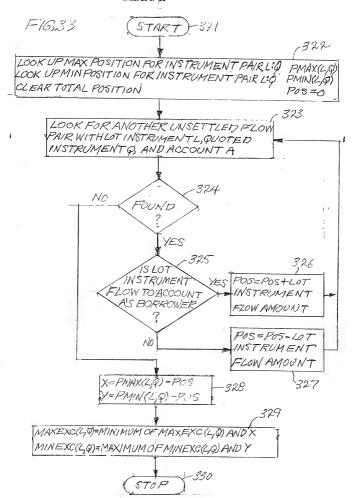
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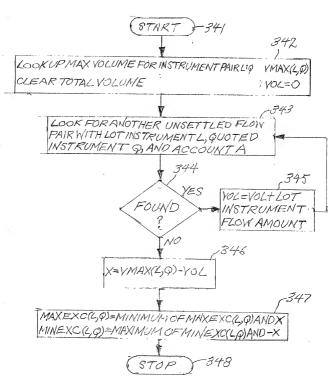


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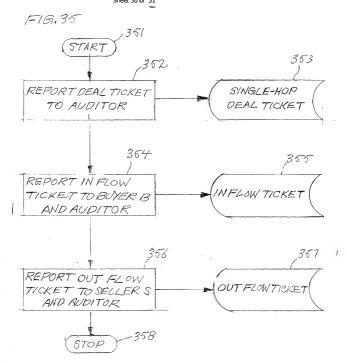


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